Zhixing Hong

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EDUCATION

UNIVERSITY OF TORONTO   Toronto, Canada
Honors Bachelor of Science (Majors in Statistics Theory & Method | Minor in Economics) (GPA – 3.73/4.0)   Sept 2018 – June 2022
- Dean's List Scholar, Faculty of Art and Science (2021 Winter/ 2019 Summer)
- Gold prize in United Kingdom Mathematics Trust Senior Challenge (Top 10%) (2017)

PROFESSIONAL EXPERIENCE

New China Insurance   Hangzhou, China
Data Analyst Intern   June 2021 – Aug 2021
- Analyzed tons of branch personnel's data using Excel and implemented data cleaning and data transformation techniques to improve the quality standards and risk control measures for the company.
- Conduct statistical analysis using R of loss information and identify trends for loss prevention to reduce operational and reputational risk across the company.
- Compiled a new script integrating multiple QC steps, improving the productivity and efficiency of the pipeline.
- Supported and facilitated the internal team in the identification and evaluation of different types of risks.
- Collaborated with other functional areas of the company to develop quality standards, strategy tactics, and systems for monitoring performance for multiple insurance transactions.

Zhejiang Financial Assets Exchange   Hangzhou, China
Data Analyst Intern   Jul 2020 – Sept 2020
- Implemented unsupervised machine learning algorithms using R on customer data to segregate them into groups and predict their spending pattern.
- Onboarded 2 projects as part of the business development team by pitching details about various products.
- Developed a technical dashboard in Tableau to manage 53 client portfolios, improving the efficiency of processes such as credit modeling and monitoring systems by 27%.
- Assisted the team in number crunching and data structuring for the project using Tableau.

PROJECTS

2020 Election Prediction, supervised by Prof. Samantha-Jo Caetano   Nov 2020 - Dec 2020
Group Leader
- Led a team of 3 to work on the final report and accurately predicted the Liberal Party to be the winner.
- Applied regression algorithm using *survey and lme4 packages* to train the model and used backward stepwise selection process to predict the results for the elections.

Picture to Cross-Stitch Pattern Transformer, supervised by Prof. Daniel Simpson   Oct 2020 - Nov 2020
- Implemented K-means algorithm and multiple R functions (ggplot2, tidyverse packages) to extract the color component from the input image and convert the input image to lower resolution with a minimum decrease in the loss function.
- Deployed functions to output the corresponding cross-stitch pattern with different customizing options available.

Analysis of Airbnb's Activity Level during Covid-19 Pandemic   July 2020
- Analyzed 70k+ Airbnb data of 3 cities using ANOVA testing to predict the pattern of the customers' bookings and destinations.
- Conducted regression algorithm and support vector machine algorithm to predict Airbnb activity trend under the effect of Covid-19 and assessed model performance by cross-validation.

PROFESSIONAL SKILLS

Solid knowledge in MS (Excel, VBA Macro), SQL, SAS(Advanced Certificate), R, Python, Java, GitHub, and Tableau